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IS 7865 (1975): General requirements of 8 tonnes hooks for lifting ISO series 1 freight containers of upto 30 tonnes capacity [MED 14: Cranes, Lifting Chains and Related Equipment]



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( Reaffirmed 1987 )

## *Indian Standard*

# GENERAL REQUIREMENTS OF 8-TONNE HOOKS FOR LIFTING ISO SERIES 1 FREIGHT CONTAINERS OF UP TO 30 TONNES CAPACITY

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BUREAU OF INDIAN STANDARDS  
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG  
NEW DELHI 110002

# Indian Standard

## GENERAL REQUIREMENTS OF 8-TONNE HOOKS FOR LIFTING ISO SERIES 1 FREIGHT CONTAINERS OF UP TO 30 TONNES CAPACITY

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# *Indian Standard*

## GENERAL REQUIREMENTS OF 8-TONNE HOOKS FOR LIFTING ISO SERIES 1 FREIGHT CONTAINERS OF UP TO 30 TONNES CAPACITY

### 0. FOREWORD

**0.1** This Indian Standard was adopted by the Indian Standards Institution on 25 November 1975, after the draft finalized by the Lifting Chains, Associated Fittings and Components Sectional Committee had been approved by the Marine, Cargo Movement and Packaging Division Council.

**0.2** It is not always possible to lift freight containers with the specially designed fittings and, therefore, it was felt desirable to set out the basic requirements for hooks which may be used for this purpose.

**0.3** This standard is based on ISO 2308-1971 'Hooks for lifting freight containers of up to 30 tonnes capacity — Basic requirements' issued by the International Organization for Standardization (ISO).

### 1. SCOPE

**1.1** This standard specifies basic requirements for point eye hooks of 8 tonnes capacity capable of being used for lifting ISO Series 1 freight containers of up to 30 tonnes capacity (*see* IS:6566-1972\*) and which are equipped with top corner fittings complying with the requirements of IS:7694-1975†.

### 2. LIFTING CAPACITY

**2.1** The minimum lifting capacity of the hooks shall be 8 tonnes.

### 3. GENERAL CONDITIONS OF ACCEPTANCE

**3.1** The general conditions of acceptance are as given in IS:7847-1975‡ subject to the specific requirements of this standard.

\*Dimensions and ratings of ISO Series 1 freight containers.

†Specification for dimensions and general requirements of corner fittings for ISO Series 1 freight containers.

‡General characteristics of lifting hooks.

**3.2** The general conditions for use are given in Appendix A.

#### **4. MATERIAL**

**4.1** The material of the hooks shall conform to Class 2 of IS : 1875-1971\*.

#### **5. ACCEPTABLE DIMENSIONS**

**5.1** The basic dimensional requirements for the hooks are given in Table 1. They take into account the manufacturing tolerances of the corner fittings of the freight containers.

**5.2** Other dimensions and size of the eye shall be in accordance with IS:3822-1966†.

#### **6. MANUFACTURE AND WORKMANSHIP**

**6.1** The hooks shall be manufactured and shall have the workmanship in accordance with IS:7847-1975‡.

#### **7. MARKING**

**7.1** The following mark shall be permanently and legibly stamped or embossed on a non-stressed part of the hook:

‘CONT 8t’

**7.1.1** The hooks may also be marked with the ISI Certification Mark.

**NOTE**— The use of the ISI Certification Mark is governed by the provisions of the Indian Standards Institution (Certification Marks) Act and the Rules and Regulations made thereunder. The ISI mark on products covered by an Indian Standard conveys the assurance that they have been produced to comply with the requirements of that standard under a well-defined system of inspection, testing and quality control which is devised and supervised by ISI and operated by the producer. ISI marked products are also continuously checked by ISI for conformity to that standard as a further safeguard. Details of conditions under which a licence for the use of the ISI Certification Mark may be granted to manufacturers or processors, may be obtained from the Indian Standards Institution.

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\*Specification for carbon steel billets, blooms, slabs and bars for forgings (third revision).

†Specification for eye hooks for use with chains.

‡General characteristics of lifting hooks.





## APPENDIX A

(Clause 3.2)

### GENERAL CONDITIONS FOR USE OF CONTAINER HOOKS

#### A-1. DISTRIBUTION OF LOAD

**A-1.1** It is assumed that the load will be reasonably evenly distributed and, in the case of loads above 25 tonnes, the angle of tilt of the freight container shall not exceed  $10^\circ$  in any direction.

#### A-2. USE OF HOOKS

**A-2.1** The hooks shall be used in sets of four and shall be attached to a lifting frame as shown in Fig. 1 in order that they may lift vertically.

**A-2.2** The connections between the hooks and the lifting frame shall be of equal length and of sufficient length and flexibility to enable the hook to be manipulated to engage the corner fitting (see Fig. 2) in the correct position for lifting.

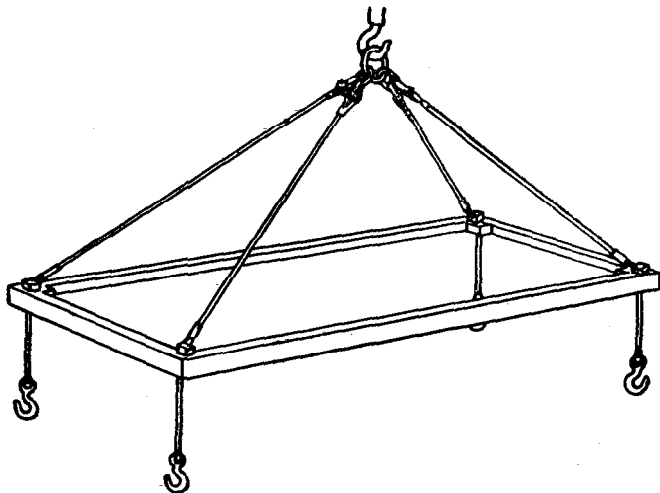


FIG. 1 LIFTING FRAME

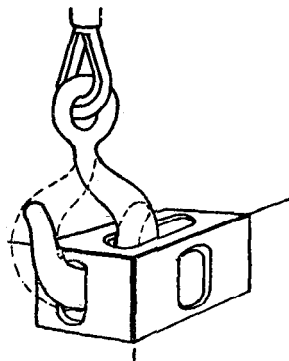


FIG. 2 HOOK ENGAGEMENT

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